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(54) **Polycrystalline diamond cutting element with diamond ridge pattern**

(57) This invention relates to a novel domed polycrystalline diamond cutting element wherein a hemispherical diamond layer is bonded to a tungsten carbide substrate, commonly referred to as a tungsten carbide

stud. Broadly, a pattern of ridges or bumps is integrally formed in the abrasive layer which ridges are designed to cause high localized stresses in the rock, thus starting a crack. By initiating cracks in localized areas, the crushing action could be performed with less force.

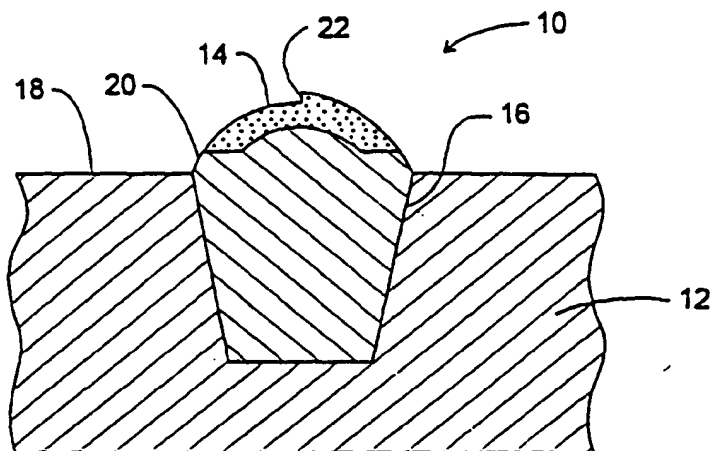


FIG. 1

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EUROPEAN SEARCH REPORT

Application Number
EP 97 31 0503

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Place of search THE HAGUE		Date of completion of the search 29 July 1999	Examiner Schouten, A
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category A: technological background O: non-written disclosure P: intermediate document</p> <p>T: theory or principle underlying the invention E: earlier patent document, but published on, or after the filing date D: document cited in the application L: document cited for other reasons</p> <p>..... A: member of the same patent family, corresponding document</p>			

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The members are as contained in the European Patent Office EDP file on
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